

ANNUAL REPORT
OF THE
DEPARTMENT OF LIMITATION
OF THE
INTERNAL CANAL COMMISSION
1911

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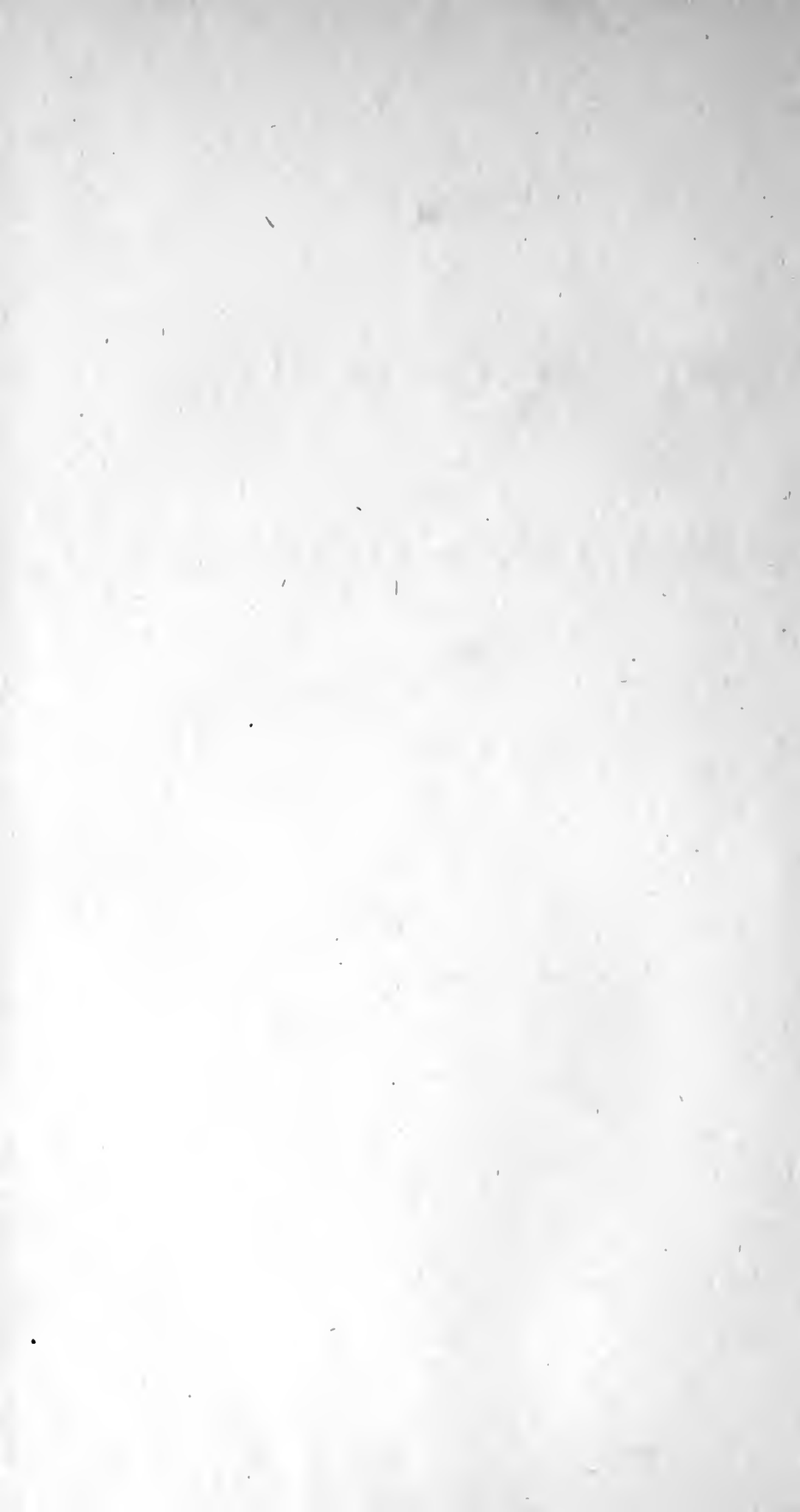
REPORT
OF THE
DEPARTMENT OF SANITATION
OF THE
ISTHMIAN CANAL COMMISSION
FOR THE
YEAR 1912

W. C. GORGAS

Colonel, Medical Corps, United States Army
Chief Sanitary Officer, Ancon, Canal Zone

WASHINGTON

1913



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LETTER OF TRANSMITTAL.

ISTHMIAN CANAL COMMISSION,
DEPARTMENT OF SANITATION,
Ancon, Canal Zone, January 18, 1913.

To the CHAIRMAN AND CHIEF ENGINEER,
ISTHMIAN CANAL COMMISSION,
Culebra, Canal Zone.

SIR: I have the honor to submit the following report of the department of sanitation for the calendar year 1912.

Statistics as to the death rate among employees of the Isthmian Canal Commission and Panama Railroad Co. for the calendar year just closed, compared with similar figures for previous years since 1904, are as follows:

	Number of employees.	Deaths.	Rate.
1904.....	6,213	82	13.26
1905.....	16,512	427	25.86
1906.....	26,547	1,105	41.73
1907.....	39,238	1,131	28.74
1908.....	43,891	571	13.01
1909.....	47,167	502	10.64
1910.....	50,802	558	10.98
1911.....	48,876	539	11.02
1912.....	50,893	467	9.18

The death rate among our white employees from the United States from disease was 3.25 per thousand, while the total death rate for the year for this class of employees was 5.52, as against 5.14 per thousand in 1911. If we include American women and children, it will raise the death rate of Americans from disease to 4.22. Including in the above figures the officers and men of the United States Army and Marine Corps stationed on the Canal Zone and their families, the death rate from disease is lowered to 3.86 per thousand. The death rate from disease in our Army for the calendar year 1911 was 2.66 per thousand.

Taking special diseases, the deaths among our employees have been:

	1905	1906	1907	1908	1909	1910	1911	1912
Typhoid fever.....	12	42	98	19	13	13	10	4
Dysentery.....	14	69	48	16	8	21	13	7
Pneumonia.....	95	413	328	93	70	73	94	57
Malaria.....	86	233	154	73	52	50	47	20

The improved conditions as regards deaths from malaria among our employees continue, and the same is true of the admission rate to hospitals, as is shown by the following table:

	Per 1,000.
1904.....	125
1905.....	514
1906.....	821
1907.....	424
1908.....	282
1909.....	215
1910.....	187
1911.....	184
1912.....	110

Deaths among our employees from the other principal diseases were as follows: Abscess of liver, 4; nephritis, acute and chronic, 36; from all forms of tuberculosis, 70; leaving 126 deaths among employees from all other diseases, and 143 deaths from external violence.

Considering the death rate of the total population, including the cities of Panama and Colon and the Canal Zone, we find the rates for the different years to be as follows:

	Rate per 1,000.
1905.....	49.94
1906.....	48.37
1907.....	33.63
1908.....	24.83
1909.....	18.19
1910.....	21.18
1911.....	21.46
1912.....	20.49

One case of yellow fever, on a ship from Guayaquil, Ecuador, was isolated in Santo Tomas Hospital, and died there on July 14.

With this exception, no cases of yellow fever, plague, or smallpox occurred on the Isthmus during the year.

Appended hereto is a chart showing the percentage of malarial cases admitted to hospitals for each month since November, 1905.

Very respectfully,

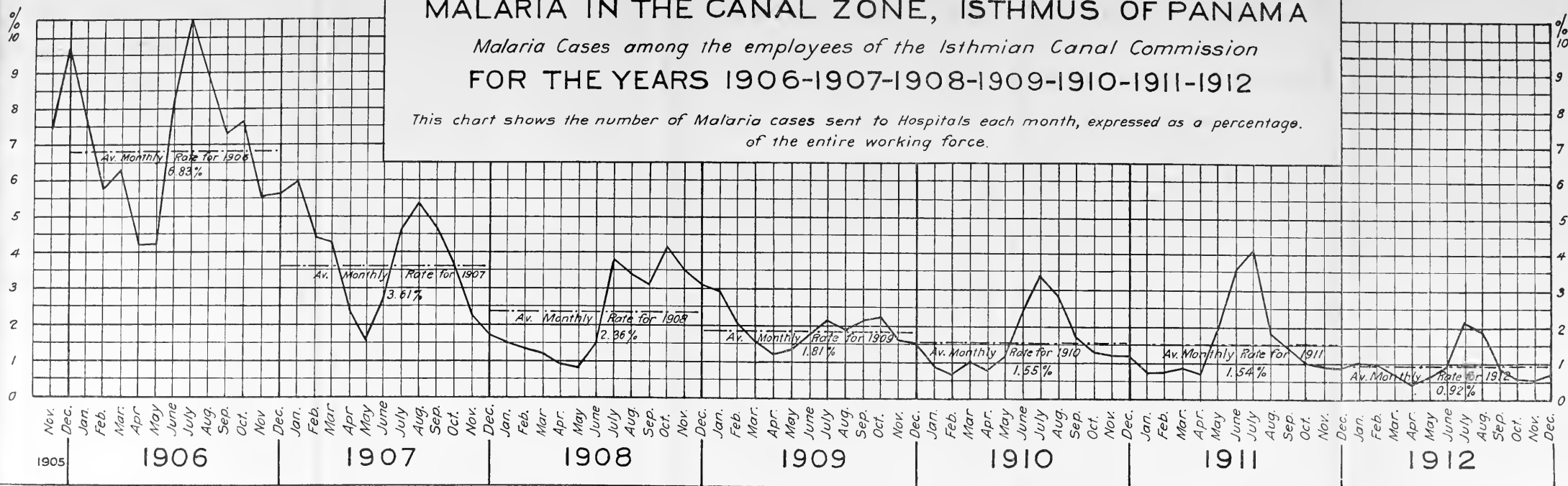
W. C. GORGAS,
Chief Sanitary Officer.

MALARIA IN THE CANAL ZONE, ISTHMUS OF PANAMA

Malaria Cases among the employees of the Isthmian Canal Commission

FOR THE YEARS 1906-1907-1908-1909-1910-1911-1912

This chart shows the number of Malaria cases sent to Hospitals each month, expressed as a percentage of the entire working force.



ANNUAL REPORT OF THE DEPARTMENT OF SANITATION, ISTHMIAN CANAL COMMISSION,

FOR THE YEAR 1912.

VITAL STATISTICS.

DEATHS OF EMPLOYEES OF THE ISTHMIAN CANAL COMMISSION AND PANAMA RAILROAD CO.

Color.	Average number of em- ployees.	Total number of deaths from—			Annual death rate per 1,000—		
		Dis- ease.	Vio- lence.	All causes.	Dis- ease.	Vio- lence.	All causes.
White.....	12,553	58	43	101	4.62	3.43	8.05
Colored.....	38,340	266	100	366	6.94	2.61	9.55
Total.....	50,893	324	143	467	6.37	2.81	9.18

DEATHS IN THE CITIES OF PANAMA AND COLON AND THE CANAL ZONE.

Place.	Population.	Deaths.	Annual average per 1,000.
Panama.....	47,057	1,380	29.33
Colon.....	20,174	493	24.44
Canal Zone.....	79,279	1,129	14.24
Total.....	146,510	3,002	20.49

NOTE.—The figures relating to the number of employees are compiled from the pay rolls of the different months of the year.

The population and deaths as given for the cities of Panama, Colon, and the Canal Zone include employees and civil population.

Total admissions of employees to hospitals and sick camps, including those sick in quarters.....	36,995
Average per thousand of admissions of employees to hospitals and sick camps, including those sick in quarters.....	727

DEATHS BY AGE, COLOR, AND SEX.

Age.	White.			Colored.			Yellow.			Total.		
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
Under 1 year...	82	55	137	449	336	785	2	...	2	533	391	924
1 to 4 years.....	21	14	35	114	102	216	...	1	1	135	117	252
5 to 10 years....	5	2	7	25	26	51	...	1	1	30	29	59
11 to 20 years....	9	5	14	73	45	118	2	...	2	84	50	134
21 to 30 years....	69	18	87	359	151	510	8	1	9	436	170	606
31 to 40 years....	50	18	68	218	111	329	6	...	6	274	129	403
41 to 50 years....	44	9	53	175	63	238	4	...	4	223	72	295
51 to 60 years....	26	9	35	75	35	110	4	...	4	105	44	149
61 to 70 years....	12	4	16	35	23	58	2	...	2	49	27	76
71 to 80 years....	7	1	8	11	17	28	1	...	1	19	18	37
81 to 90 years....	1	2	3	4	3	7	...	...	...	5	5	10
91 to 100 years...	...	...	...	...	2	2	...	...	...	...	2	2
101 to 110 years..	...	...	...	...	1	1	...	...	...	...	1	1
Unknown.....	8	2	10	38	6	44	...	...	...	46	8	54
Total.....	334	139	473	1,576	921	2,497	29	3	32	1,939	1,063	3,002

DEATHS BY NATIONALITY.

Nations.	Employees.	Non-employees.	Total.
Antigua.....	12	15	27
Austria.....	1	1	2
Bahama Islands.....	2	...	2
Barbados.....	101	272	373
Bavaria.....	...	1	1
Bolivia.....	...	1	1
Chile.....	...	3	3
China.....	...	28	28
Colombia.....	9	117	126
Costa Rica.....	...	8	8
Cuba.....	...	10	10
Curacao.....	...	1	1
Demerara.....	5	7	12
Denmark.....	1	...	1
Dominica.....	1	1	2
Ecuador.....	...	6	6
England.....	1	9	10
Finland.....	1	...	1
Fortune Islands.....	7	1	8
France.....	1	10	11
Germany.....	1	2	3
Greece.....	6	5	11
Grenada.....	16	23	39
Guadeloupe.....	6	14	20
Guiana, British.....	3	3	6
Grand Cayman.....	...	1	1
Haiti.....	3	10	13
Holland.....	1	2	3
Honduras.....	1	2	3
India.....	5	1	6
Ireland.....	...	1	1
Italy.....	6	9	15
Jamaica.....	113	512	625
Japan.....	...	1	1
Martinique.....	22	59	81
Mexico.....	1	4	5
Montserrat.....	5	12	17

DEATHS BY NATIONALITY—Continued.

Nations.	Employees.	Non-employees.	Total.
Nassau.....	5	1	6
Nevis.....	2	2	4
Nicaragua.....		4	4
Norway.....	1		1
Panama.....	13	1,167	1,180
Peru.....	1	11	12
Porto Rico.....		1	3
Portugal.....	1		1
Saba.....		1	1
Salvador.....	1	3	4
St. Croix.....	1		1
St. Kitts.....	3	4	7
St. Lucia.....	10	45	55
St. Thomas.....	1	3	4
St. Vincent.....	6	10	16
Spain.....	41	41	82
Trinidad.....	11	13	24
Turks Island.....		2	2
Turkey.....	1		1
United States.....	35	49	84
Venezuela.....	1	11	12
West Indies.....	1	3	4
Unknown.....	1	12	13
Total.....	467	2,535	3,002

CAUSES OF DEATH OF EMPLOYEES OF THE ISTHMIAN CANAL COMMISSION AND PANAMA RAILROAD.

Causes of death.	White.	Colored.	Total.
DISEASES.			
Alcoholism, acute and chronic.....	4		4
Anemia.....		2	2
Aneurysm.....	1	3	4
Apoplexy.....	1	5	6
Appendicitis.....	3		3
Bilharziosis, intestinal.....		1	1
Brain, softening of.....	2	1	3
Brain, tumor of.....		1	1
Calculi of urinary passages.....		1	1
Cancer of intestines.....		1	1
Cancer and other malignant tumors of stomach and liver.....	1	2	3
Colitis.....	1		1
Dysentery.....		1	1
Dysentery:			
Entamoebic.....		2	2
Unclassified.....		4	4
Bacillary.....		1	1
Embolism and thrombosis.....		3	3
Empyema.....		1	1
Encephalitis.....		1	1
Endocarditis, acute.....	1		1
Epilepsy.....		1	1
Fever:			
Hemoglobinuric.....	5	1	6
Malaria.....		1	1
Malaria, estivo autumnal.....	6	7	13
Typhoid.....	1	3	4

CAUSES OF DEATH OF EMPLOYEES OF THE ISTHMIAN CANAL
COMMISSION AND PANAMA RAILROAD—Continued.

Causes of death.	White.	Colored.	Total.
Heart, organic disease of.....	4	19	23
Hemorrhages, other.....	1	1	2
Infection of unknown origin.....	1	4	5
Liver:			
Abscess of.....	2	2	4
Cirrhosis of.....	1	1	2
Disease of.....	1	.....	1
Lungs:			
Abscess of.....	.....	2	2
Gangrene of.....	2	4	6
Measles.....	.....	2	2
Meningitis:			
Pneumococcus.....	.....	7	7
Simple.....	1	3	4
Nephritis:			
Acute.....	3	2	5
Chronic.....	3	28	31
Other forms of mental alienation.....	1	.....	1
Other diseases of the nervous system.....	.....	1	1
Other diseases of the skin and annexa.....	.....	1	1
Pellagra.....	.....	1	1
Pharynx, disease of.....	.....	1	1
Peritonitis, simple.....	.....	1	1
Pneumonia.....	.....	4	4
Pneumonia, lobar.....	3	50	53
Pulmonary congestion.....	1	2	3
Pyemia.....	2	5	7
Pyemia and septicemia, pneumococcic.....	.....	6	6
Septicemia.....	.....	2	2
Septicemia, purulent infection and.....	1	.....	1
Spinal cord, disease of.....	.....	1	1
Stricture of urethra.....	.....	1	1
Sudden death.....	.....	1	1
Syphilis.....	1	1	2
Tetanus.....	1	.....	1
Tuberculosis:			
Abdominal.....	1	3	4
Disseminated.....	2	25	27
Miliary.....	.....	6	6
Pulmonary.....	1	32	33
Ulcer of the stomach.....	.....	1	1
Ulcer, duodenal.....	.....	2	2
Undiagnosed.....	.....	1	1
VIOLENCE.			
Absorption of deleterious gases.....	1	3	4
Accidental traumatisms, various.....	9	32	41
Burns and scalds.....	.....	2	2
Drowning, accidental.....	5	14	19
Dynamite explosions.....	3	6	9
Electric shock.....	1	2	3
Homicides.....	2	1	3
Poisonings, acute.....	1	.....	1
Railroad accidents.....	18	35	53
Suicides.....	2	2	4
Other external violence.....	1	3	4
Total.....	101	366	467

DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES.

Name.	Division.	Time on Isthmus.	Age.	Cause of death.
<i>January, 1912.</i>				
Grigsby, Frank C...	Central division....	4 years....	46	Heart failure.
Guillon, Felix.....	Panama R. R. Co...	6 years....	32	Softening of the brain.
Horam, J. L.....	Civil administration	2½ years...	23	Malaria fever, E. A.
<i>February, 1912.</i>				
Cole, S. C.....	Central division....	5 years....	54	Simple meningitis.
Colip, E. H.....	Panama R. R. Co...	7 years....	51	Abscess of the liver.
Ferguson, Howard..	Quarter master's Department.	2 weeks...	60	Acute nephritis.
<i>March, 1912.</i>				
Hagan, John.....	Panama R. R. Co...	7 years....	45	Appendicitis.
Kornfeld, Karl.....	Atlantic division....	2 years....	42	Organic disease of heart.
Longtin, F. R.....	Pacific division....	.....	29	Railroad traumatism.
Sadler, Joseph V...	Central division....	5½ years...	50	Do.
<i>April, 1912.</i>				
Kenison, Nelson...	Mechanical division	4 years....	60	Traumatism by machines.
<i>May, 1912.</i>				
Golden, John P....	Pacific division....	3 years 9 months.	34	Traumatism in mines and quarries.
Gould, Charles R...	Civil administration	7 months..	32	Suicide by firearms.
Higley, Charles.....	Atlantic division....	3½ years...	43	Absorption of deleterious gases.
Kemp, John D.....	Civil administration	7 months..	26	Accidental drowning.
Mahoney, Martin...	McClintic-Marshall Co.	1 year....	42	Traumatism by fall.
<i>June, 1912.</i>				
Brenner, Joseph B..	Panama R. R. commissary.	4 years....	38	Accidental drowning.
Powers, Ike.....	Pacific division....	6 years....	56	Hemoglobinuric fever.
Schwartz, Henry...	Mechanical division	7 years....	46	Amoebic abscess of liver.
<i>July, 1912.</i>				
Riley, Thomas.....	Pacific division....	13 months.	25	Acute endocarditis.
<i>August, 1912.</i>				
Gannon, Margaret E.	Sanitary department.	4½ years...	29	Acute mania.
Lockes, Charles F..	Mechanical division.	2 years 10 months.	35	Acute cardiac failure.
Painter, Joseph H..	Atlantic Division...	4 years 4 months.	36	Other acute poisonings.
Strock, James Ramsom.	Mechanical division.	5 years....	50	Acute cholangitis.
Smith, Alfred.....	Central division....	6 years....	47	Chronic nephritis.
<i>September, 1912.</i>				
Fay, Lawrence B...	Chief engineer's office.	1 year 8 months.	28	Traumatism by fall.

DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES—
Continued.

Name.	Division.	Time on Isthmus.	Age.	Cause of death.
<i>September, 1912—Continued.</i>				
Hanley, Wm. H....	Pacific division....	5 days.....	.....	Railroad trauma- tism.
Ray, Edward.....	McClintic-Marshall Co.	1 year 7 months.	40	Acute alcoholism.
<i>October 1912.</i>				
Frost, Walter B....	Engineering and construction.	2 years....	23	Tubercular peritoni- tis.
Reed, W. F.....	Pacific division....	1 year 10 months.	29	Acute alcoholism.
Stannage, Thomas.	Chairman's office...	1 day.....	45	Purulent infection and septicemia.
<i>November, 1912.</i>				
Purcell, John J....	Mechanical divi- sion.	4 years 10 months.	44	Railroad trauma- tism.
<i>December, 1912.</i>				
May, Duncan.....	Mechanical divi- sion.	6 years 1 month.	32	Accidental drown- ing.
Wood, Benj. F....	Police department..	7 years....	38	Softening of brain.

DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED
STATES.

Name.	Time on Isthmus.	Age.	Cause of death.
<i>January, 1912.</i>			
Briggs (infant).....	6 hours....	6 hours....	Premature birth.
Todt, Mrs. F. M.....	3 years....	40 years....	Acute nephritis.
<i>February, 1912.</i>			
Sanders, Velma Lee.....	6 months..	6 months..	Pertussis.
<i>March, 1912.</i>			
Davis (infant).....	9 hours....	9 hours....	Premature birth.
Rossener (infant).....	15 days....	15 days....	Broncho-pneumonia.
<i>April, 1912.</i>			
Peterson, Mabel.....	6 months..	6 months..	Malaria fever, E. A.
<i>May, 1912.</i>			
Einermann, Dorothy.....	5 months..	63 years...	Organic heart disease.
Henter, John.....	8 months..	8 months..	Gastroenteritis.
Keeling, Mrs. James R.....	5 years....	35 years....	Acute meningitis.
McLaughlin, Richard.....	2½ years....	2½ years....	Malaria fever, E. A.
Roe, Mrs. Martin.....	6 years....	35 years....	Acute pelvic peritonitis.
Willet, Leon E.....	5 months..	5 months..	Diarrhea and enteritis.

DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES—Continued.

Name.	Time on Isthmus.	Age.	Cause of death.
<i>June, 1912.</i>			
Reynolds, Thomas.....	11 months.	11 months.	Diarrhea and enteritis.
<i>July, 1912.</i>			
Farley, Thelma.....	3 years....	4 years....	Chronic nephritis.
Jerry, Carl Nelson, jr.....	3 days....	3 days....	Convulsions.
Reidy, John Vaughn.....	7 weeks....	7 weeks....	Acute indigestion.
Rohden, Mrs. N.....	4 years....	48 years....	Embolism.
Wilson, Pearl.....	1 year....	26 years....	Acute enterocolitis.
<i>August, 1912.</i>			
Duvall, Fredericka.....	2 years....	2 years....	Cerebrospinal meningitis.
Kane, Mrs. Geo. N.....	6 months....	63 years....	Diabetes.
Shearer, Mrs. S. G.....	2 years....	.....	Extra-uterine pregnancy.
<i>September, 1912.</i>			
Abendroth (infant).....	2 days....	2 days....	Premature birth.
Allen, Margaret E.....	15 months.	3 years....	Accidental drowning.
<i>October, 1912.</i>			
Clarke (infant).....	9 days....	9 days....	Premature birth.
<i>November, 1912.</i>			
Lohman, Mrs. Chas. F.....	3 years....	36 years....	Chronic nephritis.
Willett (infant).....	5 hours....	5 hours....	Premature birth.

For December, 1912, none.

DEATH RATE AMONG AMERICANS ON THE ISTHMUS.

	Number.	Cause of death.	Number of deaths.	Annual average per 1,000.
Average number of white employees from the United States.....	6,159	Disease.....	20	3.25
		Violence.....	14	2.27
		All causes.....	34	5.52
Average number of white women and children from the United States.....	4,502	Disease.....	25	5.55
		Violence.....	1	.22
		All causes.....	26	5.77
Average number of white employees and their families from the United States.....	10,661	Disease.....	45	4.22
		Violence.....	15	1.41
		All causes.....	60	5.63
Total number of Americans on the Canal Zone ¹	11,923	Disease.....	46	3.86
		Violence.....	22	1.84
		All causes.....	68	5.70

¹ The figures representing the total number of Americans on the Canal Zone include employees and their families and the officers and men of the Tenth Infantry and marines and their families.

CAUSES AND PLACES OF DEATH OF EMPLOYEES AND CIVIL POPULATION.

Diseases.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Zone.	Total.
<i>General diseases.</i>						
Typhoid fever.....	6	1	2			9
Malaria.....	1	1	78	24	45	149
Malarial fever:						
Estivo autumnal.....	26	9	16		20	71
Tertian.....	1	2			1	4
Undetermined.....					1	1
Clinical.....					3	3
Cachexia.....			1	1	2	4
Hemoglobinuric fever, malarial.....	5	2			1	8
Measles.....	2		1			3
Whooping cough.....	1					1
Diphtheria and croup.....	3	2	2			7
Influenza.....			2			2
Cholera nostras.....			1			1
Dysentery.....	1		23	3	7	34
Dysentery:						
Entamebic.....	9		1		1	11
Bacillary.....	1					1
Unclassified.....	5					5
Leprosy.....					1	1
Erysipelas.....	2					2
Chicken pox.....				1		1
Purulent infection and septicemia.....	2	1				3
Pyemia.....	9	1				10
Septicemia.....	4	4	17	2		27
Pyemia and septicemia, pneumo- coccic.....	9					9
Tetanus.....	1	3	9			13
Pellagra.....	6	7	9	1	1	24
Beriberi.....		1	11			12
Tuberculosis of the lungs.....	54	28	169	23	29	303
Acute miliary tuberculosis.....	9	1				10
Tuberculous meningitis.....		2		1	2	5
Abdominal tuberculosis.....	3	1	6			10
Pott's disease.....			1			1
Tuberculosis of other organs.....	1	2				3
Tuberculosis of the larynx.....			2			2
Tuberculous abscess.....				1	1	2
Disseminated tuberculosis.....	44	3	2	1		50
Rickets.....			2			2
Syphilis:						
Primary.....		2	3	1	1	7
Secondary.....			1			1
Tertiary.....	2				1	3
Hereditary.....		2	5	2	3	12
Period not stated.....		1	7			8
Gonorrheal arthritis.....	1					1
Gonorrheal orchitis and epididymitis.....			1	1		2
Cancer and other malignant tumors of the buccal cavity.....			1			1
Cancer and other malignant tumors of the stomach and liver.....	8	3	2	1	1	15
Cancer and other malignant tumors of the peritoneum, intestines, and rectum.....		1				1
Cancer and other malignant tumors of the female genital organs.....	3	1	7			11
Cancer and other malignant tumors of the breast.....		1				1
Cancer and other malignant tumors of the skin.....	1		1			2

CAUSES AND PLACES OF DEATH OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Diseases.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Zone.	Total.
<i>General diseases—Continued.</i>						
Cancer and other malignant tumors of other organs and of organs not specified.....	2	.....	6	.....	.....	8
Acute articular rheumatism.....	.....	.....	3	1	.....	4
Chronic rheumatism and gout.....	.....	.....	1	.....	.....	1
Diabetes.....	.....	2	.....	.....	.....	2
Anemia:						
Chlorosis.....	4	.....	.....	.....	1	5
Primary, pernicious.....	.....	1	1	2	4	8
Anemia, secondary, cause not deter- mined.....	1	.....	.....	.....	.....	1
Alcoholism (acute or chronic).....	2	.....	7	.....	.....	9
Alcoholism (acute).....	2	1	1	.....	.....	4
<i>Diseases of the nervous system and of the organs of special sense.</i>						
Encephalitis.....	2	.....	.....	.....	1	3
Simple, meningitis.....	7	1	16	1	6	31
Cerebrospinal fever.....	.....	.....	.....	.....	1	1
Pneumococcus meningitis.....	10	5	.....	.....	.....	15
Other diseases of the spinal cord.....	1	1	1	1	.....	4
Acute anterior poliomyelitis.....	.....	1	1	.....	.....	2
Cerebral hemorrhage, apoplexy.....	6	5	18	7	4	40
Softening of the brain.....	2	2	.....	.....	1	5
Paralysis without specified cause.....	.....	.....	5	.....	2	7
Other forms of mental alienation.....	2	1	.....	.....	.....	3
Epilepsy.....	.....	.....	2	3	4	9
Convulsions, nonpuerperal (5 years and over).....	.....	.....	2	.....	1	3
Convulsions of infants (under 5 years of age).....	.....	.....	.....	2	8	10
Neuritis.....	1	.....	3	.....	.....	4
Other diseases of the nervous system.....	2	1	.....	.....	.....	3
Tumor of the brain.....	2	1	2	.....	.....	5
<i>Diseases of the circulatory system.</i>						
Pericarditis.....	.....	.....	.....	1	2	3
Acute endocarditis.....	1	2	39	2	.....	44
Malignant endocarditis.....	.....	.....	.....	1	.....	1
Organic diseases of heart.....	26	5	21	4	25	81
Angina pectoris.....	.....	.....	2	2	1	5
Aneurysm.....	4	3	3	1	.....	11
Arteriosclerosis.....	2	.....	8	.....	.....	10
Embolism and thrombosis.....	5	1	.....	.....	.....	6
Diseases of the veins (varices hem- orrhoids, phlebitis, etc.).....	.....	.....	1	.....	.....	1
Hemorrhage (other diseases of the circulatory system).....	.....	.....	9	1	7	17
<i>Diseases of the respiratory system.</i>						
Diseases of the larynx.....	.....	2	.....	.....	.....	2
Laryngitis.....	.....	.....	2	.....	.....	2
Acute bronchitis.....	1	.....	41	15	2	59
Chronic bronchitis.....	.....	.....	5	.....	.....	5
Broncho-pneumonia.....	14	4	31	16	31	96
Pneumonia (unqualified).....	.....	1	63	6	12	82
Lobar pneumonia.....	60	12	10	2	8	92
Pleurisy.....	.....	.....	2	1	.....	3
Empyema.....	1	1	.....	1	.....	3

CAUSES AND PLACES OF DEATH OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Diseases.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Zone.	Total.
<i>Diseases of the respiratory system— Continued.</i>						
Pulmonary congestion, pulmonary apoplexy.....		2	14			16
Gangrene of the lungs.....	7	2				9
Asthma.....			1			1
Pulmonary emphysema.....			1			1
Other diseases of the respiratory system (tuberculosis excepted).....					1	1
Abscess of lungs.....	1	1				2
<i>Diseases of the digestive system.</i>						
Diseases of the mouth and annexa.....			1			1
Stomatitis.....					3	3
Diseases of the pharynx.....	1					1
Ulcer of the stomach.....	1		1	2		4
Acute gastritis.....				4	1	5
Acute indigestion.....					2	2
Diarrhea and enteritis (under 2 years).....	8	6	199	39	61	313
Colitis.....		3	9	1	2	15
Diarrhea and enteritis (2 years and over).....	3		30	3	2	38
Colitis.....	1	1	3			5
Ankylostomiasis.....		1				1
Intestinal parasites.....			5		2	7
Bilharziosis, intestinal.....	1					1
Appendicitis and typhlitis.....	2	1	1			4
Hernia, intestinal obstructions.....	2		3			5
Intestinal obstruction.....	2		6		1	9
Other diseases of the intestines.....			2			2
Duodenal ulcer.....	2					2
Acute yellow atrophy of the liver.....			1			1
Cirrhosis of the liver.....	3	1	17	4	2	27
Other diseases of the liver.....	1		5	2		8
Abscess of liver (unqualified).....	1	4	1			6
Abscess of the liver entamebic.....	3	4				7
Cholecystitis.....			1			1
Abscess of spleen.....	1					1
Simple peritonitis (nonpuerperal).....	4	3	3	1	4	15
Other diseases of the digestive sys- tem (cancer and tuberculosis ex- cepted).....	1				2	3
<i>Nonvenereal diseases of the genito-uri- nary system and annexa.</i>						
Acute nephritis.....	6	5	22	5	11	49
Bright's disease (chronic nephritis).....	41	35	44	14	10	144
Other diseases of the kidney and an- nexa.....	5	1	2			8
Pyelo-nephrosis.....		1			1	2
Calculi of the urinary passages.....	1					1
Cystitis.....				1		1
Stricture of the urethra, nonvenereal.....	2					2
Vesico-vaginal fistula.....			1			1
Diseases of the prostate.....			1			1
Chronic prostatitis.....			2			2
Nonvenereal diseases of the male genital organs.....			1			1
Hydrocele.....			2			2
Cysts and other tumors of the ovary.....					1	1
Salpingitis and other diseases of the female genital organs.....			1			1

CAUSES AND PLACES OF DEATH OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Diseases.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Zone.	Total.
<i>The puerperal state.</i>						
Accidents of pregnancy.....			1			1
Extra-uterine pregnancy.....	1					1
Hyperemesis gravidarum.....	1					1
Abortion.....		1	3			4
Puerperal hemorrhage.....				1	3	4
Other accidents of labor.....			2			2
Puerperal septicemia.....	2	4	3	1	3	13
Eclampsia.....	5	4	2	2	2	15
<i>Diseases of the skin and of the cellular tissue.</i>						
Gangrene.....	1		4			5
Furuncle.....			1			1
Acute abscess.....			2			2
Elephantiasis.....	1					1
<i>Diseases of the bones and of the organs of locomotion.</i>						
Diseases of the bones (tuberculosis excepted).....	1					1
<i>Malformations.</i>						
Congenital malformations (stillbirth not included).....	1		1			2
<i>Diseases of early infancy.</i>						
Congenital debility, icterus, and sclerema.....	6	1	2	14	13	36
Premature birth.....	7	12	11	6	21	57
Congenital debility.....	8		12	6	9	5
Malnutrition.....	1	6	36	22	111	176
Other causes peculiar to early infancy (including various consequences of labor).....	4	2	7	7	10	30
Lack of care.....			1	1		2
<i>Old age.</i>						
Senility.....	2		2	4	8	16
<i>Affections produced by external causes.</i>						
Suicide by poisoning.....			4	1	1	6
Suicide by hanging or strangulation.....			1		1	2
Suicide by drowning.....					2	2
Suicide by firearms.....		1	2		4	7
Suicide by cutting or piercing instru- ments.....		1				1
Other acute poisonings.....		1			3	4
Burns (conflagration excepted).....	1		2		2	5
Absorption of deleterious gases (con- flagration excepted).....	3	1				4
Accidental drowning.....			2	5	32	39
Traumatism by firearms.....			1		1	2
Traumatism by cutting or piercing instruments.....		1	1			2
Traumatism by fall.....	8	7	3	1	8	27
Traumatism by machines.....	4	2			2	8

CAUSES AND PLACES OF DEATH OF EMPLOYEES AND CIVIL
POPULATION—Continued.

Diseases.	Ancon Hospi- tal.	Colon Hospi- tal.	Pan- ama.	Colon.	Zone.	Total.
<i>Affections produced by external causes—Continued.</i>						
Traumatism by other crushings, (vehicles, railroads, landslides, etc.).....	3		1		2	6
Railroad traumatism.....	19	10	1	1	45	76
Dynamite traumatism.....	2				8	10
Traumatism by landslides.....					2	2
Injuries by animals.....			1			1
Electricity (lightning excepted).....			1		3	4
Homicide by firearms.....			6		4	10
Homicide by cutting or piercing in- struments.....	1	1	1			3
Homicide by other means.....	1					1
Other external violence.....		2			3	5
<i>Ill-defined diseases.</i>						
Ill-defined organic disease.....	4	1			2	7
Sudden death.....			3			3
Cause of death not specified or ill- defined.....	5	1	24	3	3	36
Infections of undetermined origin....	9		1		2	12
Total.....	581	265	1,214	284	658	3,002
Stillbirths.....	2	14	131	69	117	333
Grand total.....	583	279	1,345	353	775	3,335

NOTE.—The deaths occurring in Ancon and Colon Hospitals resulting from illness, injury, or other cases admitted from the cities of Panama and Colon, or from the Canal Zone, are in the table of vital statistics, credited to the places from whence they were admitted.

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN
THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM
ALL CAUSES, FOR THE YEAR 1912.

Diseases.	Dis- charged.	Died.
<i>General diseases.</i>		
Typhoid fever.....	30	3
Malaria.....	1	
Malaria fever:		
Estivo autumnal.....	3,055	11
Tertian.....	760	
Quartan.....	69	
Mixed.....	1	
Undetermined.....	23	
Clinical.....	1,666	
Cachexia.....	6	
Hemoglobinuric fever, malarial.....	26	5
Vaccinia.....	13	
Measles.....	58	2
Scarlet fever.....	1	
Diphtheria and croup.....	9	
Influenza.....	254	

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES, FOR THE YEAR 1912—Continued.

Diseases.	Dis- charged.	Died.
<i>General diseases—Continued.</i>		
Dysentery.....	1	..
Entamebic.....	35	2
Bacillary.....	2	1
Unclassified.....	157	4
Leprosy.....	4	..
Erysipelas.....	4	..
Dengue.....	83	..
Chicken pox.....	8	..
Mumps.....	6	..
Hemoglobinuric fever, unqualified.....	14	..
Yaws.....	5	..
Filariasis.....	7	..
Acute infectious jaundice (Weil's disease).....	5	..
Other epidemic diseases.....	2	..
Purulent infection and septicemia.....	27	3
Pyemia.....	1	6
Septicemia.....	1	1
Pyemia and septicemia, pneumococcic.....	2	6
Tetanus.....	2	1
Mycoses.....	1	..
Pellagra.....	7	1
Tuberculosis of the lungs.....	146	29
Acute miliary tuberculosis.....	..	6
Tuberculous meningitis.....	1	..
Abdominal tuberculosis.....	9	4
Pott's disease.....	3	..
Tuberculosis of bones and joints.....	6	..
Tuberculosis of other organs.....	7	..
Tuberculosis of the larynx.....	1	..
Tuberculosis of the skin.....	1	..
Tuberculosis of the lymph glands.....	7	..
Tuberculosis of the genito-urinary organs.....	6	..
Disseminated tuberculosis.....	7	26
Syphilis:		
Primary.....	41	..
Secondary.....	174	..
Tertiary.....	202	1
Period not stated.....	126	..
Gonococcus infection.....	24	..
Gonorrhea.....	363	..
Gonorrheal arthritis.....	41	..
Gonorrheal bubo.....	4	..
Gonorrheal orchitis and epididymitis.....	42	..
Gonorrheal ophthalmia.....	8	..
Soft chancre.....	247	..
Adenitis chancroidal.....	334	..
Cancer and other malignant tumors of buccal cavity.....	1	..
Cancer and other malignant tumors of the stomach and liver.....	4	4
Cancer and other malignant tumors of the peritoneum, intestines, rectum.....	1	..
Cancer and other malignant tumors of the skin.....	1	..
Cancer and other malignant tumors of other organs and of organs not specified.....	5	..
Other tumors (tumors of the female genital organs excepted).....	44	..
Acute articular rheumatism.....	31	..
Chronic rheumatism and gout.....	41	..
Gout.....	2	..
Arthritis deformans.....	2	..
Diabetes.....	8	..
Anemia, chlorosis.....	12	2
Anemia, primary, pernicious.....	3	..
Anemia, secondary, cause not determined.....	13	..

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES, FOR THE YEAR 1912—Continued.

Diseases.	Dis- charged.	Died.
<i>General diseases—Continued.</i>		
Other general diseases.....	10	.....
Alcoholism (acute or chronic).....	26	2
Alcoholism, acute.....	66	2
Alcoholism, chronic.....	13	.....
Alcoholic psychosis.....	12	.....
Other chronic occupation poisonings.....	4	.....
Other chronic poisonings.....	2	.....
<i>Diseases of the nervous system and of the organs of special sense.</i>		
Simple meningitis.....	1	4
Pneumococcus meningitis.....	.....	5
Locomotor ataxia.....	2	.....
Other diseases of the spinal cord.....	4	2
Acute anterior polio-myelitis.....	1	.....
Cerebral hemorrhage, apoplexy.....	9	9
Softening of the brain.....	1	2
Paralysis without specified cause.....	10	.....
Other forms of mental alienation.....	44	1
Dementia precox.....	11	.....
Epilepsy.....	13	.....
Hysteria.....	18	.....
Neuralgia.....	31	.....
Neuritis.....	81	.....
Other diseases of the nervous system.....	12	2
Tumor of the brain.....	1	1
Neurasthenia.....	196	.....
Diseases of the eyes and their annexa.....	552	.....
Follicular conjunctivitis.....	70	.....
Trachoma.....	4	.....
Diseases of the ears.....	233	.....
<i>Diseases of the circulatory system.</i>		
Pericarditis.....	6	.....
Acute endocarditis.....	3	.....
Organic diseases of the heart.....	87	10
Aneurysm.....	5	4
Arteriosclerosis.....	15	.....
Embolism and thrombosis.....	.....	2
Diseases of the veins (varices hemorrhoids, phlebitis, etc.).....	8	.....
Hemorrhoids.....	113	.....
Varices.....	13	.....
Varicocele.....	56	.....
Phlebitis.....	5	.....
Diseases of the lymphatic system (lymphangitis, etc.).....	47	.....
Lymphadenitis (nonvenereal).....	147	1
Hemorrhage; other diseases of the circulatory system.....	8	.....
<i>Diseases of the respiratory system.</i>		
Diseases of the nasal fossæ.....	272	.....
Adenoid vegetations.....	11	.....
Myiasis of nasal fossæ and sinuses.....	51	.....
Diseases of the larynx.....	7	.....
Laryngitis.....	12	.....
Diseases of the thyroid body.....	3	.....
Acute bronchitis.....	395	.....
Chronic bronchitis.....	58	.....
Broncho-pneumonia.....	12	1
Lobar pneumonia.....	210	54

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES, FOR THE YEAR 1912—Continued.

Diseases.	Dis. charged.	Died.
<i>Diseases of the respiratory system—Continued.</i>		
Pleurisy.....	140	—
Empyema.....	3	1
Pulmonary congestion, pulmonary apoplexy.....	—	1
Gangrene of the lungs.....	1	5
Asthma.....	31	—
Pulmonary emphysema.....	9	—
Other diseases of the respiratory system.....	7	1
Abscess of lungs.....	—	2
<i>Diseases of the digestive system.</i>		
Diseases of the mouth and annexa.....	18	—
Diseases of the teeth and gums.....	23	—
Stomatitis.....	6	—
Diseases of the pharynx.....	5	1
Pharyngitis.....	60	—
Follicular tonsillitis.....	231	—
Diseases of the oesophagus.....	1	—
Ulcer of the stomach.....	17	1
Other diseases of the stomach (cancer excepted).....	85	—
Gastrectasis.....	5	—
Acute gastritis.....	35	—
Chronic gastritis.....	98	—
Acute indigestion.....	157	—
Diarrhea and enteritis (under 2 years).....	10	—
Diarrhea and enteritis (2 years and over).....	179	—
Colitis.....	6	1
Ankylostomiasis.....	57	—
Intestinal parasites.....	21	—
Ascariasis.....	3	—
Bilharziasis, intestinal.....	4	1
Taeniasis.....	3	—
Appendicitis and typhlitis.....	118	2
Acute appendicitis.....	36	—
Chronic appendicitis.....	27	—
Hernia, intestinal obstructions.....	29	—
Inguinal hernia.....	237	—
Other hernias.....	24	—
Other diseases of the intestines.....	107	—
Constipation.....	64	—
Duodenal ulcer.....	8	2
Acute yellow atrophy of the liver.....	8	—
Hydatid tumor of the liver.....	1	—
Cirrhosis of the liver.....	19	2
Biliary calculi.....	2	1
Other diseases of the liver.....	13	—
Abscess of the liver (unqualified).....	9	—
Abscess of the liver (entamoebic).....	5	4
Cholecystitis.....	11	—
Diseases of the spleen.....	7	—
Simple peritonitis (nonpuerperal).....	12	3
Other diseases of the digestive system (cancer and tuberculosis excepted).....	2	—
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>		
Acute nephritis.....	35	5
Bright's disease (chronic nephritis).....	93	31
Other diseases of the kidney and annexa.....	10	—
Pyelo-nephrosis.....	3	—
Calculi of the urinary passages.....	25	1
Diseases of the bladder.....	1	—

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES, FOR THE YEAR 1912—Continued.

Diseases.	Dis- charged.	Died.
<i>Nonvenereal diseases of the genito-urinary system and annexe—Continued.</i>		
Cystitis.....	27	.....
Diseases of the urethra, urinary abscesse, etc.....	30	.....
Stricture of the urethra, nonvenereal.....	65	1
Diseases of the prostate.....	1	.....
Acute prostatitis.....	1	.....
Chronic prostatitis.....	4	.....
Abscess of the prostate.....	1	.....
Hypertrophy of prostate.....	2	.....
Nonvenereal diseases of the male genital organs.....	112	.....
Hematocele.....	1	.....
Hydrocele.....	75	.....
Chylocele.....	1	.....
Uterine hemorrhage (nonpuerperal).....	1	.....
Uterine tumor (noncancerous).....	3	.....
Other diseases of the uterus.....	4	.....
Metritis.....	1	.....
Cysts and other tumors of the ovary.....	4	.....
Salpingitis and other diseases of the female genital organs.....	4	.....
<i>The puerperal state.</i>		
Abortion.....	3	.....
<i>Diseases of the skin and of the cellular tissue.</i>		
Gangrene.....	2	.....
Furuncle.....	107	.....
Carbuncle.....	24	.....
Acute abscess.....	314	.....
Phlegmon and cellulitis.....	78	.....
Trichophytosis.....	1	.....
Scabies.....	5	.....
Chiggers (<i>Pulex penetrans</i>).....	2	.....
Red bug.....	2	.....
Pemphigus contagiosus.....	1	1
Filaria medinensis.....	1	.....
Elephantiasis.....	12	.....
Dhobie itch.....	35	.....
Ulcer of the skin.....	136	.....
Tropical ulcer.....	6	.....
Impetigo contagiosa.....	5	.....
Urticaria.....	5	.....
Ingrowing nail.....	17	.....
Other diseases of the skin and annexe.....	211	.....
<i>Diseases of the bones and of the organs of locomotion.</i>		
Diseases of the bones (tuberculosis excepted).....	24	.....
Caries (nontuberculous).....	4	.....
Mastoid abscess.....	2	.....
Osteomyelitis.....	8	.....
Periostitis.....	25	.....
Diseases of the joints (tuberculosis and rheumatism excepted).....	29	.....
Ankylosis.....	3	.....
Arthritis.....	86	.....
Synovitis.....	45	.....
Amputations.....	90	.....
Other diseases of the organs of locomotion.....	212	.....
<i>Malformations.</i>		
Congenital malformations (still birth not included).....	9	.....

TABLE SHOWING DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES, FOR THE YEAR 1912—Continued.

Diseases.	Dis- charged.	Died.
<i>Old age.</i>		
Senility.....	3	.....
<i>Affections produced by external causes.</i>		
Poisoning by food.....	18	.....
Other acute poisonings.....	4	.....
Burns (conflagration excepted).....	137	.....
Absorption of deleterious gases (conflagration excepted).....		3
Traumatism by firearms.....	22	.....
Traumatism by cutting or piercing instruments.....	543	.....
Traumatism by fall.....	422	10
Traumatism in mines and quarries.....	104	.....
Traumatism by machines.....	297	3
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....	136	1
Railroad traumatism.....	479	24
Dynamite traumatism.....	999	2
Traumatism by landslides.....	23	.....
Injuries by animals.....	4	.....
Effects of heat.....	3	.....
Heat exhaustion.....	2	.....
Electricity (lightning excepted).....	8	.....
Fractures (cause not specified).....	507	.....
Dislocations.....	29	.....
Sprains.....	216	.....
Other external violence.....	1, 153	2
<i>Ill-defined diseases.</i>		
Ill-defined organic disease.....	4	1
Cause of death or disease not specified or ill defined.....	3	1
Infections of undetermined origin.....	39	5
No disease.....	68	.....
Feigned disease.....	7	.....
Total.....	20, 477	340

CONSOLIDATED HOSPITAL REPORT.

Hospitals.	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
<i>Ancon Hospital.</i>												
Employees.....	215	391	7, 056	9, 270	49	222	5, 288	8, 928	1, 723	72	211	439
Nonemployees.....	87	94	2, 746	1, 800	60	222	2, 511	1, 565	173	33	89	74
Insane.....	30	262	23	168	1	27	12	88	16	33	24	282
Total.....	332	747	9, 825	11, 238	110	471	7, 811	10, 581	1, 912	138	324	795
<i>Colon Hospital.</i>												
Employees.....	71	76	3, 154	1, 400	19	48	2, 518	1, 346	577	4	111	78
Nonemployees.....	37	55	1, 270	1, 514	28	170	1, 217	1, 308	23	13	39	78
Total.....	108	131	4, 424	2, 914	47	218	3, 735	2, 654	600	17	150	156

CONSOLIDATED HOSPITAL REPORT—Continued.

Hospitals.	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
<i>Culebra Hospital.</i>												
Employees.....												
Nonemployees.....	2	5	28	168	1	7	27	150	2	13	....	3
Total.....	2	5	28	168	1	7	27	150	2	13	....	3
<i>Palo Seco Leper Asylum.</i>												
Employees.....				2				2				
Nonemployees.....	2	47	1	9		7		3		1	3	45
Total.....	2	47	1	11		7		5		1	3	45
<i>Taboga Sanitarium.</i>												
Employees.....	39		2,380		1		2,358		26		34	
Nonemployees.....	21		1,140				1,149		3		9	
Total.....	60		3,520		1		3,507		29		43	
GRAND TOTAL.												
Employees.....	325	467	12,590	10,672	69	270	10,164	10,276	2,326	76	356	517
Nonemployees.....	149	201	5,185	3,491	89	406	4,904	3,026	201	60	140	200
Insane.....	30	262	23	168	1	27	12	88	16	33	24	282
Total.....	504	930	17,798	14,331	159	703	15,080	13,390	2,543	169	520	999

CONSOLIDATED SICK-CAMP REPORT.

Stations.	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Miraflores.....			541	657			262	397	279	260		
Pedro Miguel....	2	3	241	471			144	239	99	235		
Paraiso.....	1	3	147	465			84	250	64	218		
Culebra.....		3	460	712	3	1	327	515	128	197	2	2
Empire.....	2	4	321	975	1		252	724	70	255		
Las Cascadas....	2	5	261	374	1		225	344	37	35		
Bas Obispo.....	8	7	224	316		1	195	306	37	16		
Gorgona.....		4	88	867		1	68	641	20	229		
Gatun.....	5	8	886	2,236		1	531	1,515	360	728		
Cristobal.....		6	142	981		1	77	527	65	459		
Porto Bello.....		6	155	384			116	330	39	57		3
Toro Point.....	4	3	91	338			38	161	57	180		
Total.....	24	52	3,557	8,776	5	5	2,319	5,949	1,255	2,869	2	5

CONSOLIDATED REPORT OF EMPLOYEES SICK IN QUARTERS.

Stations.	Days excused for quarters.			New patients excused for quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	64	258	322	25	118	143
Ancon.....	1,030	1,661	2,691	440	249	689
Balboa.....	607	77	684	294	56	350
Corozal.....	625	.....	625	435	.....	435
Miraflores.....	159	4	163	114	2	116
Pedro Miguel.....	619	.....	619	326	.....	326
Paraiso.....	559	3	562	279	1	280
Culebra.....	507	35	542	265	19	284
Empire.....	1,733	7	1,740	779	3	782
Las Cascadas.....	683	6	689	292	1	293
Bas Obispo.....	281	22	303	131	7	138
Gorgona.....	3,788	562	4,350	1,769	186	1,955
Gatun.....	1,690	95	1,785	855	4	859
Cristobal.....	2,156	161	2,317	1,064	47	1,111
Porto Bello.....	218	.....	218	115	.....	115
Toro Point.....	72	.....	72	50	.....	50
Total.....	14,791	2,891	17,682	7,233	693	7,926

CONSOLIDATED HOSPITAL, SICK-CAMP, AND SICK-IN-QUARTERS REPORT.

	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Remain- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Hospitals.....	504	930	17,798	14,331	159	703	15,080	13,390	2,543	169	520	999
Sick camps....	24	52	3,557	8,776	5	5	2,319	5,949	1,255	2,869	2	5
Total...	528	982	21,355	23,107	164	708	17,399	19,339	3,798	3,038	522	1,004

	White.	Colored.	Total.
Total admissions to hospitals and sick camps.....	21,355	23,107	44,462
Number of employees sick in quarters.....	7,233	693	7,926
Total.....	28,588	23,800	52,388
Less number of patients transferred from sick camps to hospitals, and from hospitals to sani- tarium, whose admissions are duplicated in above figures.....	3,798	3,038	6,836
Net admissions to hospitals and sick camps and those sick in quarters.....	24,790	20,762	45,552

CONSOLIDATED DISPENSARY REPORT.

Stations.	Employees.			Nonemployees.			Total.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	755	5,424	6,179	.....	9	9	755	5,433	6,188
Ancon.....	8,532	17,574	26,106	4,186	5,222	9,408	12,718	22,796	35,514
Balboa.....	14,831	18,738	33,569	2,179	844	3,023	17,010	19,582	36,592
Corozal.....	11,649	8,486	20,135	3,361	1,380	4,741	15,010	9,866	24,876
Miraflores.....	23,715	27,623	51,338	634	463	1,097	24,349	28,086	52,435
Pedro Miguel....	15,958	14,495	30,453	2,603	1,991	4,594	18,561	16,486	35,047
Paraiso.....	6,971	5,551	12,522	2,976	1,588	4,564	9,947	7,139	17,086
Culebra.....	20,382	21,948	42,330	8,456	9,588	18,044	28,838	31,536	60,374
Empire.....	17,469	26,553	44,022	8,854	6,896	15,750	26,323	33,449	59,772
Las Cascadas....	6,699	5,247	11,946	4,903	2,777	7,680	11,602	8,024	19,626
Bas Obispo.....	13,601	13,681	27,282	3,552	2,621	6,173	17,153	16,302	33,455
Gorgona.....	21,810	22,890	44,700	7,251	6,898	14,149	29,061	29,788	58,849
Gatun.....	38,511	39,933	78,444	5,317	4,750	10,067	43,828	44,683	88,511
Cristobal.....	14,362	18,538	32,900	6,628	3,455	10,083	20,990	21,993	42,983
Porto Bello.....	4,102	7,405	11,507	867	1,436	2,303	4,969	8,841	13,810
Toro Point.....	4,428	9,163	13,591	770	487	1,257	5,198	9,650	14,848
Margarita Point	516	1,260	1,776	.....	.....	.....	516	1,260	1,776
Total.....	224,291	264,509	488,800	62,537	50,405	112,942	286,828	314,914	601,742

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS, SICK CAMPS, AND QUARTERS.

Hospitals.	White.	Colored.	Total.
Ancon Hospital.....	240.97	452.49	693.46
Colon Hospital.....	108.48	86.58	195.06
Palo Seco Leper Asylum.....	.....	.49	.49
Taboga Sanitarium.....	42.95	.....	42.95
Total.....	392.40	539.56	931.96

	Sick camps.			Sick in quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	.....	.....	.....	0.17	0.71	0.88
Ancon.....	.....	.....	.....	2.81	4.54	7.35
Balboa.....	.....	.....	.....	1.66	.21	1.87
Corozal.....	.....	.....	.....	1.71	.....	1.71
Miraflores.....	2.74	3.18	5.92	.43	.01	.44
Pedro Miguel.....	1.71	2.75	4.46	1.69	.....	1.69
Paraiso.....	1.14	3.35	4.49	1.35	.01	1.54
Culebra.....	4.07	6.40	10.47	1.38	.10	1.48
Empire.....	2.51	6.44	8.95	4.73	.02	4.75
Las Cascadas....	3.76	5.94	9.70	1.86	.02	1.88
Bas Obispo.....	2.03	4.60	6.63	.77	.06	.83
Gorgona.....	.70	7.34	8.04	10.35	1.54	11.89
Gatun.....	5.76	15.74	21.50	4.62	.26	4.88
Cristobal.....	.83	5.21	6.04	5.89	.44	6.33
Porto Bello.....	1.47	4.11	5.58	.60	.....	.60
Toro Point.....	.55	2.07	2.62	.20	.....	.20
Total.....	27.27	67.13	94.40	40.40	7.92	48.32

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK.

	White.	Colored.	Total.
Hospitals.....	392.40	539.56	931.96
Sick camps.....	27.27	67.13	94.40
Sick in quarters.....	40.40	7.92	48.32
Total.....	460.07	614.61	1,074.68

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK PER 1,000.

	White.	Colored.	Total.
Hospitals.....	31.26	14.07	18.31
Sick camps.....	2.17	1.75	1.85
Sick in quarters.....	3.22	.21	.95
Total.....	36.65	16.03	21.11

AVERAGE NUMBER OF DAYS' TREATMENT PER EMPLOYEE IN HOSPITALS, SICK CAMPS, AND QUARTERS.

Hospitals.	White.	Colored.	Total.
Ancon Hospital.....	12.49	17.96	15.59
Colon Hospital.....	12.75	22.67	15.80
Palo Seco Leper Asylum.....	.....	90.00	90.00
Taboga Sanitarium.....	6.57	.....	6.57
Total.....	11.44	18.59	14.71

	Sick camps.			Quarters.		
	White.	Colored.	Total.	White.	Colored.	Total.
Naos Island.....	.....	.....	.....	2.56	2.20	2.25
Ancon.....	.....	.....	.....	2.34	6.67	3.91
Balboa.....	.....	.....	.....	2.06	1.38	1.95
Corozal.....	.....	.....	.....	1.44	.....	1.44
Miraflores.....	1.86	1.77	1.81	1.39	2.00	1.41
Pedro Miguel.....	2.57	2.13	2.28	1.90	.....	1.90
Paraiso.....	2.82	2.62	2.67	2.00	3.00	2.01
Culebra.....	3.25	3.29	3.27	1.91	1.84	1.91
Empire.....	2.84	2.41	2.52	2.22	2.33	2.23
Las Cascadas.....	5.23	5.74	5.53	2.34	6.00	2.35
Bas Obispo.....	3.22	5.21	4.37	2.15	3.14	2.20
Gorgona.....	2.93	3.08	3.07	2.14	3.02	2.23
Gatun.....	2.36	2.57	2.51	1.98	23.75	2.09
Cristobal.....	2.13	1.93	1.95	2.03	3.43	2.09
Porto Bello.....	3.79	1.51	1.81	1.90	.....	1.90
Toro Point.....	1.30	1.96	1.77	1.44	.....	1.44
Total.....	2.79	2.79	2.79	2.04	4.17	2.23

SUBSISTENCE AND OPERATING EXPENSES.

	Hospitals.	Sick camps.	Total.
<i>Subsistence expenses.</i>			
Number of days' rations issued to patients..	571, 589	34, 554	606, 143
Cost of rations issued to patients.....	\$144, 181. 81	\$8, 319. 38	\$152, 501. 19
Cost of subsistence per patient per day.....	\$0. 252	\$0. 240	\$0. 251
<i>Operating expenses.</i>			
Number of days' relief furnished patients....	571, 589	34, 554	606, 143
Cost of operation.....	\$707, 134. 28	\$17, 695. 35	\$724, 829. 63
Cost per capita per day.....	\$1. 24	\$0. 51	\$1. 20
Cost of operation with amount received from outside patients, etc., deducted.....	\$551, 594. 09	\$17, 695. 35	\$569, 289. 44
Cost per capita per day with above deduc- tion.....	\$0. 97	\$0. 51	\$0. 94
Cost of dispensaries.....	\$152, 785. 99	.....	.....

OUTSIDE PATIENTS TREATED IN HOSPITALS AND AMOUNTS
COLLECTED FOR THEIR TREATMENT.

	Number of cases treated.	Number of days' relief.	Amount.
Patients for whom the Republic of Panama pays 75 cents per day.....	2, 503	70, 702	\$53, 026. 50
Patients for whom the Canal Zone government pays 30 cents per day.....	440	11, 413	3, 423. 90
Patients paying 30 cents per day for themselves..	3, 178	31, 971	9, 591. 30
Patients from the Republic of Panama paying other prices.....	1, 604	14, 959	38, 627. 90
Patients from the Canal Zone paying other prices.	4, 590	35, 946	44, 519. 17
Patients from the Canal Zone not paying.....	2, 580	50, 061	.....
Patients from the Republic of Panama not paying.....	553	7, 402	.....
Total.....	15, 448	222, 454	149, 188. 77

NOTE.—Patients carried from one month to another are considered as separate cases in above table.

SURGICAL OPERATIONS PERFORMED IN HOSPITALS.

	Number.	Died.
Amputations:		
Shoulder.....	1	1
Arm.....	7	.....
Forearm.....	6	1
Hand.....	1	.....
Hip joint.....	1	1
Thigh.....	4	.....
Leg.....	19	.....
Foot.....	6	.....
Digits, multiple.....	39	.....
Leg, double.....	2	1

SURGICAL OPERATIONS PERFORMED IN HOSPITALS—Continued.

	Number.	Died.
Operations on bones:		
Cranietomy:		
Decompressive.....	25	6
Exploratory.....	3	.....
Laminectomy.....	5	4
Ostietomy.....	37	1
Resection of elbow.....	3	.....
Wiring of fractures:		
Simple.....	46	2
Compound.....	27	.....
Adenectomy:		
Cervical.....	19	1
Axillary.....	9	.....
Inguinal:		
Single.....	406	.....
Double.....	107	.....
Femoral.....	29	.....
Herniotomy:		
Inguinal:		
Single.....	190	2
Double.....	124	.....
Femoral.....	9	.....
Ventral.....	27	.....
Combined (any two of the above).....	1	.....
Strangulated.....	8	1
Genito-urinary tract:		
Nephrotomy.....	5	.....
Nephrectomy.....	2	.....
Nephropexy.....	1	.....
Perinephritic abscess, drainage of.....	1	.....
Ureterotomy.....	4	.....
Cystotomy.....	1	.....
Urethrotomy:		
Internal.....	29	.....
External.....	54	.....
Prostatectomy.....	3	.....
Varicocele, radical cure.....	60	.....
Hydrocele:		
Single, radical cure.....	72	.....
Double, radical cure.....	18	.....
Orchidectomy.....	25	.....
Epididymotomy.....	83	.....
Vasectomy.....	3	.....
Amputation of scrotum.....	10	.....
Amputation of penis.....	5	.....
Amputation of penis and scrotum.....	3	.....
Curetage uteri.....	238	.....
Perineoplasty.....	51	.....
Trachelorrhaphy.....	24	.....
Vaginal sections.....	49	.....
Vaginal punctures.....	8	.....
Obstetrical:		
Cesarean section—		
Abdominal.....	5	1
Vaginal.....	2	.....
High forceps.....	6	.....
Low forceps.....	26	.....
Version.....	12	.....
Perineorrhaphy.....	73	.....
Thorax:		
Thoracotomy.....	10	1
Pneumothoracotomy.....	2	2
Pericardiotomy.....	1	.....
Excision of breast and axilla.....	3	.....
Gunshot wound of chest, operation for.....	1	.....
Stab wound of chest, operation for.....	1	.....

SURGICAL OPERATIONS PERFORMED IN HOSPITAL—Continued.

	Number.	Died.
Rectum:		
Hemorrhoids, radical cure	153	
Fistula in anus, excision of	15	
Prolapsus rectum, radical excision	1	
General:		
Thyroidectomy	11	
Aneurismorrhaphy	1	
Varicose veins, excision of	29	
Tenorrhaphy	8	
Excision of surface neoplasms	29	
Gunshot wound of soft parts, operation for	6	
Extensive injuries to soft parts, operation for	1	
Plastic operation for congenital defect	4	
Plastic operation for severe injuries	42	1
Plastic operation for effects of disease	35	1
Skin graft	24	
Laparotomy.		
For general peritonitis	5	3
For tuberculous peritonitis	2	1
For intestinal obstruction	7	
Exploratory	40	2
Gastrotomy	4	2
Gastro-enterostomy	12	1
Entero-enterostomy	2	
Enterectomy	3	1
Enterorrhaphy	4	1
Appendectomy	248	
Appendectomy with local peritonitis	21	
Appendectomy with general peritonitis	11	4
Caecostomy	2	2
Colostomy	2	2
Sigmoidopexy	4	
Cholecystotomy	7	
Cholecystostomy	10	1
Cholecystectomy	2	
Abscess of liver, laparo-hepatotomy for	13	5
Abscess of liver, thoraco-hepatotomy for	17	4
Splenectomy	1	
Panhysterectomy	24	
Supravaginal hysterectomy	23	
Hysteromyomectomy	39	
Myomectomy	13	
Salpingectomy, single	21	
Salpingectomy, double	35	2
Salpingo-oophorectomy	17	1
Ovarian cystectomy	6	
Oophorectomy	2	
Suspensio-uteri	66	
Plastic operation for chronic pelvic peritonitis	60	
For ectopic gestation	12	1
For trauma:		
General peritonitis	5	2
Hematoperitoneum	2	1
Rupture of spleen	3	1
Stab wound of abdomen	1	1
Major operations, various other	64	1
Minor operations, various	3,756	2
Total.	6,977	67

OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND
THROAT CLINICS.

	Number.	Died.
Operations:		
Abscess, peritonsillar	1	.....
Adenectomy	175	.....
Advancement of external rectus	9	.....
Advancement of internal rectus	8	.....
Blepharoplasty for ectropion (skin graft)	1	.....
Bowman's dilatation of lacrimal duct	3	.....
Cataract—		
Dissection of	6	.....
Needling	2	.....
Cyst, sebaceous, excision	4	.....
Capsulectomy	5	.....
Conjunctival cyst	1	.....
Dacryocystotomy	1	.....
Dilatation of lacrimal sac	1	.....
Dilatation, esophageal	4	.....
Dissection, juvenile cataract	1	.....
Enucleation	13	.....
Evisceration	8	.....
Excision of chalazion	9	.....
Excision of cyst, iris	1	.....
Excision, Keloid	1	.....
Excision, melano sarcoma	1	.....
Expression for follicular conjunctivitis	6	.....
Expression for trachoma	1	.....
Extraction of cataract	28	.....
Goldsmith's plastic operation for closure septal perfora- tion	1	.....
Holsrath-Kuhnt operation	4	.....
Incision and drainage of abscess, eyelid	1	.....
Incision and drainage of lacrimal sac	3	.....
Incision of chalazion	8	.....
Incision of peritonsillar abscess	1	.....
Inferior turbinate, cauterizations	5	.....
Iridectomy	45	.....
Lacrimal canaliculus incised	5	.....
Lacrimal duct probed	28	.....
La Grange operation	1	.....
Ligature, conjunctival vessel	1	.....
Lingual tonsil, cauterizations	15	.....
Mastoidectomy	19	.....
Mastoidotomy, simple	10	.....
Mastoidotomy, radical	1	.....
Maxillary, sinus	4	.....
Nasal bones, setting of	2	.....
Papillomatous growth eyelid resected	1	.....
Paracentesis of cornea	13	.....
Paracentesis of membrana tympani	16	.....
Paraffine prosthesis of nose	1	.....
Phlyctenule, excision	2	.....
Plastic on ear	1	.....
Plastic on eyelid	19	.....
Plastic, face	4	.....
Plastic on nose	16	.....
Polypoid growth tonsil removed	1	.....
Polypoid growth uvula removed	2	.....
Pterygium, ablation	38	.....
Pterygium, transplantation	103	.....
Removal of aural polyp	1	.....
Removal of cyst, ear	1	.....
Removal of nasal polyp	30	.....
Sclerotomy, posterior	3	.....
Septal spurs	21	.....
Sinusotomy, maxillary, radical	8	.....
Subconjunctival cysts	5	.....
Submucous resection of nasal septum	215	.....

OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND
THROAT CLINICS—Continued.

	Number.	Died.
Operations—Continued.		
Subperiosteal abscess.....	2	.....
Suture, lacerated sclera.....	1	.....
Tarsal tumors.....	25	.....
Tenotomy.....	15	.....
Tonsillectomy.....	341	.....
Tonsillotomy.....	5	.....
Turbineotomy.....	86	.....
Uvulotomy.....	8	.....
Wolff's graft, eye.....	1	.....
Various minor operations.....	1,277	.....
Total.....	2,706	.....
Refractions.....	3,163	.....
Outside cases treated.....	19,045	.....
Grand total.....	24,914	.....

CONSOLIDATED WARD LABORATORY REPORT OF ALL HOSPITALS.

Blood examinations.....	20,896
Estivo-autumnal.....	4,361
Tertian, single.....	1,203
Tertian, double.....	8
Mixed tertian and estivo-autumnal.....	31
Quartan.....	105
Differential blood counts.....	2,048
Leucocyte counts.....	3,032
Red blood counts.....	451
White blood counts.....	343
Hemoglobin estimations.....	944
Filaria.....	13
Guaiac and turpentine tests for invisible blood.....	215
Moro test.....	1
Stool examinations.....	16,434
Hymenolepsis diminutis.....	1
Monadena.....	5
Ascaris lumbricoides.....	1,104
Uncinaria ova.....	2,461
Tricocephalus dispar.....	1,763
Strongyloides intestinalis.....	638
Tenia.....	8
Tenia saginata.....	11
Ameba.....	148
Mucus.....	72
Entameba.....	14
Ciliated monads.....	426
Bilharzia.....	74
Pus and blood.....	2,907
Pus and epithelial cells.....	12
Balantidium coli.....	13
Tubercle bacilli.....	2
Entameba, tetragena.....	55
Oxyuris vermicularis.....	18
Entameba, histolytica.....	33
Entameba coli.....	49
Trichuris trichinura.....	3
Flagellated monads.....	6
Guaiac and turpentine tests for occult blood.....	29
Curds.....	1
Bismuth crystals.....	10
Ankylostoma worms.....	10
Urine examinations.....	33,717
Albumen.....	7,695
Albumen and casts.....	5,350
Sugar.....	28

Urine examinations—Continued.

Pus and blood.....	2,519
Gonococci.....	23
Indican.....	3
Epithelium.....	534
Bile.....	22
Microscopical examinations.....	1,076
Trichomonas vaginatis.....	4
Flagellated monads.....	5
Diplococci.....	4
Hemin crystals.....	31
Guaiaac and turpentine tests for blood.....	159
Red blood cells.....	15
White blood cells.....	5
Pus and epithelium.....	94
Phosphates.....	1
Ciliated monads.....	1
Bacilli, acid fast.....	1
Filaria.....	6
Mucus.....	6
Chyluria.....	1
Urea estimations.....	13
Sputum examinations.....	2,337
Tubercle bacilli.....	427
Streptococci.....	1
Blood.....	2
Diplococci.....	1
Elastic tissue.....	2
Pus.....	5
Miscellaneous:	
Examinations of pleural effusions.....	3
Examinations of various smears and discharges.....	377
Examinations of spinal fluid.....	18
Examination of vaginal and urethral discharges.....	204
Examinations of pus, blood, and tissue.....	11
Diplococci.....	4
Skin scrapings.....	6
Stomach contents.....	6
Gastric analyses.....	107

ANCON HOSPITAL.

Class.	Remain- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Remain- ing Dec. 1.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Isthmian Canal Co m mission employees.....	195	288	6,766	7,728	49	171	5,063	7,397	1,654	59	195	389
Panama R. R. employees.....	20	103	290	1,542	.....	51	225	1,531	69	13	16	50
Pay patients.....	83	55	2,469	1,211	52	107	2,246	1,088	171	12	83	59
Charity patients.....	4	39	277	589	8	115	265	477	2	21	6	15
Insane patients.....	30	262	23	168	1	27	12	88	16	33	24	282
Total.....	332	747	9,825	11,238	110	471	7,811	10,581	1,912	138	324	795

	White.	Colored.	Total.
Average number of days' treatment per employee for the year	12.49	17.96	15.59
Average number of employees constantly sick dur- ing the year	240.97	452.49	693.46
Number of days' relief furnished patients.....			415,009
Cost of subsistence per patient per day.....			\$0.209

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		W.	C.	W.	C.
Isthmian Canal Commission employees.....	14,977	2,560	20	4,013	8,334
Panama Railroad employees.....	1,955	177	1	151	1,626
Pay patients.....	3,818	1,617	.....	880	1,321
Charity patients.....	909	147	3	115	644
Insane patients.....	483	10	.....	29	444
Total.....	22,142	4,511	24	5,188	12,419

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

COLON HOSPITAL.

Class.	Re-main-ing Jan. 1.		Admitted.		Died.		Dis-charged.		Trans-ferred.		Re-main-ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Isthmian Canal Commission employees.....	57	47	2,634	789	14	25	2,121	764	462	2	94	45
Panama R. R. employees.....	14	29	520	611	5	23	397	582	115	2	17	33
Private pay.....	21	22	1,073	1,051	11	92	1,033	930	21	4	29	47
Municipal pay.....	2	13	26	117	4	21	23	104	1	.....	.....	5
Zone charity.....	14	20	171	346	13	57	161	274	1	9	10	26
Total.....	108	131	4,424	2,914	47	218	3,735	2,654	600	17	150	156

	White.	Colored.	Total.
Average number of days' treatment per employee for the year.....	12.75	22.67	15.80
Average number of employees constantly sick during the year.....	108.48	86.58	195.06
Number of days' relief furnished patients.....	.....	.....	112,527
Cost of subsistence per patient per day.....	.....	.....	\$0.297

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		W.	C.	W.	C.
Isthmian Canal Commission employees.....	3,527	1,960	.....	605	962
Panama R. R. employees.....	1,174	329	.....	152	693
Private pay.....	2,167	765	.....	300	1,102
Municipal pay.....	158	4	.....	24	130
Zone charity.....	551	108	.....	66	377
Total.....	7,577	3,166	.....	1,147	3,264

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

CULEBRA HOSPITAL.

Class.	Remain- ing Jan. 1.		Admit- ted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Nonemployees.....	2	5	28	168	1	7	27	150	2	13	.....	3

Number of days' relief furnished patients..... 2,082
 Cost of subsistence per patient per day..... \$0.223

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		W.	C.	W.	C.
Nonemployees.....	203	8	3	18	174

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

PALO SECO LEPER ASYLUM.

Class.	Remain- ing Jan. 1.		Admit- ted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing Dec. 31.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Employees.....				2				2				
Pay patients.....	1	31	1	2		4				1	2	28
Charity patients.....	1	16		7		3		3			1	17
Total.....	2	47	1	11		7		5		1	3	45

	White.	Colored.	Total.
Average number of days' treatment per employee for the year.....		90.00	90.00
Average number of employees constantly sick during the year.....		.49	.49
Number of days' relief furnished patients.....			17,759
Cost of subsistence per patient per day.....			\$0.327

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		W.	C.	W.	C.
Employees.....	2				2
Pay patients.....	35			1	34
Charity patients.....	24			1	23
Total.....	61			2	59

TABOGA SANITARIUM.

Class.	Re- main- ing Jan. 1.	Ad- mitted.	Died.	Dis- charged.	Trans- ferred.	Re- main- ing Dec. 31.
Employees.....	39	2,380	1	2,358	26	34
Families of employees.....	21	1,140		1,149	3	9
Total.....	60	3,520	1	3,507	29	43

Average number of days' treatment per employee for the year.....	6.57
Average number of employees constantly sick during the year.....	42.95
Number of days' relief furnished patients.....	24,212
Cost of subsistence per patient per day.....	\$0.687

NATIONALITY.

Class.	Number treated.	Americans.	Other nations.
Employees.....	2,419	1,711	708
Families of employees.....	1,161	1,130	31
Total.....	3,580	2,841	739

NOTE.—No colored patients treated at Taboga Sanitarium.

SANTO TOMAS HOSPITAL.

Class.	Remain- ing Jan. 1.	Ad- mitted.	Died.	Dis- charged.	Trans- ferred.	Remain- ing Dec. 31.
Pay cases.....	29	1,424	23	1,391	.....	39
Charity cases.....	269	5,490	393	5,143	.....	223
Total.....	298	6,914	416	6,534	.....	262

Average number of days' treatment per patient.....	14.44
Average number of patients constantly sick.....	274.15
Number of days' relief furnished patients.....	100,341
Cost of subsistence per patient per day.....	\$0.249

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		W.	C.	W.	C.
Pay cases.....	1,453	.....	.....	440	1,013
Charity cases.....	5,759	.....	.....	725	5,034
Total.....	7,212	.....	.....	1,165	6,047

OPERATIONS.

	Number.	Died.
Major.....	515	21
Minor.....	278	.....
Total.....	793	21

DISPENSARY.

	White.	Colored.	Total.
Natives.....	1,904	3,413	5,317
Foreigners.....	530	841	1,371
Total.....	2,434	4,254	6,688

BOARD OF HEALTH LABORATORY.

Bacteriological examinations of—

Municipal water supplies.....	41
Water from springs.....	32
Milk.....	1
Cultures, various.....	3
Larvacide test.....	1
Fluids and exudates.....	53
Blood cultures.....	368
Throat cultures (diphtheria suspects).....	850
Cultures from autopsies.....	90
Cultures from eye.....	7
Stools.....	354
Urine.....	310
Sputum.....	16
Pus.....	21
Stomach contents.....	10
Hydrocele fluid.....	4
Kneejoint fluid.....	15
Fluid from cyst.....	1
Spinal fluid.....	40
Various smears and specimens.....	105
Pleural fluid.....	8
Cultures from frontal sinuses.....	3
Blood.....	2
Tonsils.....	1
Fluid from sinus in kidney.....	1
"Powdelac".....	1
Fluid from chest.....	2
Culture from abscess on back.....	1
Scrapings from left femur.....	1
Abdominal fluid.....	1
Cultures from abdominal sinuses.....	4
Fluid from hematoma.....	1

Determinations of—

Larvacidal value of commercial disinfectant.....	2
Quinine in ampules of quinine hydrochloride.....	1

Examinations of—

Leper suspects.....	13
Rabies suspects.....	3
Animals.....	14
"First aid packets".....	4
Vomit.....	1
Fluid from hog for anthrax.....	1
Plague suspects.....	2
Tuberculin test of hospital dairy herd.....	81

Chemical examinations of—

Pyrocresol.....	1
Knife for police department.....	1
Coal.....	1
Rosin.....	1
Blood.....	1
Stomach contents.....	18
Bismuth subnitrate.....	1
Urine.....	51
Water.....	1
Test meal.....	1
Various liquids, fluids, etc.....	31
Various metals.....	6
Earth.....	1
Pyrethrum.....	1
Santonin powder.....	2
Urinary calculus.....	1
Hydrogen peroxide.....	1
Gastric contents.....	1
Insectide.....	1
Oil, crude.....	1
Vomit.....	1
"Powdelac".....	1
Thymol.....	1
Toxicological examinations (police department).....	2
Acetphenetidin tablets.....	1
Bile.....	1

Agglutination reactions.....	210
Autopsies.....	638
Bodies embalmed.....	83
Hydrophobia, preventive treatment.....	4
Medico-legal postmortems.....	7
Microscopical examinations, bile.....	1
Microscopical examinations of stomach contents.....	1
Sections of tissue prepared, frozen.....	302
Sections of tissue prepared, paraffin.....	5,859
Standardizations of clinical thermometers.....	7
Surgical pathological tissue and neoplasms reported.....	321
Vaccinations, antipest.....	4
Vaccination for plague.....	1
Vaccination, smallpox.....	2
Vaccine inoculations, antityphoid.....	2
Vaccine treatment, autogenous, prepared.....	72
Vaccine treatment, autogenous, administered.....	35
Vaccines, mixed.....	3
Water, microscopical examination of.....	18
Water, sanitary analyses of.....	33
Wasserman reactions.....	2,835
Widal reactions.....	97

ISSUES OF QUININE.

Months.	Kilograms.	Pounds, avoirdupois.
January.....	19.00	41.89
February.....	53.35	117.62
March.....	114.00	251.32
April.....	184.46	407.10
May.....	14.85	32.74
June.....	42.44	93.56
July.....	33.00	72.75
August.....	39.00	85.98
September.....	38.70	85.32
October.....	57.93	127.71
November.....	30.99	68.32
December.....	39.40	86.86
Total.....	667.12	1,471.17
Average per month.....	55.59	122.60

SANITATION—CITY OF PANAMA.

Anopheles brigade:	
Linear feet of ditches cleaned.....	1,708,571
Linear feet of ditches dug.....	8,012
Square feet of weeds and grass cut and removed.....	4,969,400
Cesspools cleaned.....	40
Wells filled.....	16
Cesspools filled.....	30
Cubic yards of earth used in filling cesspools, wells, and holes.....	2,049
Loads of grass removed and burned.....	3,155
Disinfection brigade:	
Houses disinfected and fumigated for diphtheria.....	30
Houses disinfected and fumigated for tuberculosis.....	6
Houses disinfected and fumigated for chickenpox.....	1
Houses disinfected for cerebrospinal meningitis.....	2
Houses disinfected and fumigated for scarlet fever.....	1
Houses disinfected and fumigated for leprosy.....	1
Houses disinfected and fumigated for typhoid fever.....	8
Houses disinfected for poliomyelitis.....	7
Number of cubic feet disinfected and fumigated.....	914,528
Number of rooms fumigated and disinfected.....	244
Houses fumigated for yellow fever.....	6

Material used:	
Larvacide.....	4,283
Destruction of rats:	
Number of rats caught and killed.....	5,775
Average number of rat traps in use.....	2,232
Inspection of houses and yards:	
Houses and yards inspected.....	1,284
Persons notified to keep premises in good condition.....	342
Warning notices complied with.....	427
Number of letters to alcalde requesting enforcement of sanitary rules and regulations.....	49
Number of shacks, stables, and old buildings condemned and demolished.....	57
Number of yards cleaned.....	4,902
Loads of refuse removed from the city.....	3,874
New buildings:	
Number of plans submitted to health officer and approved.....	223
Number of permits granted for repairs to old buildings.....	68

SANITATION—COLON, CRISTOBAL, MOUNT HOPE, TORO POINT, MARGARITA POINT.

Water and sewers:	
Number of connections made during the year.....	156
Total number of connections made to date.....	923
Number of outstanding permits.....	427
Number of houses in which extensions were made.....	60
Houses:	
Plans approved.....	157
Permits to repair issued.....	319
Permits to occupy issued.....	101
Temporary permits to occupy issued.....	35
Number of houses in which defective plumbing fixtures were found and reported to superintendent of public works.....	776
Sanitation of Colon:	
Number of loads of yard garbage removed.....	5,971
Average number of cans of garbage removed daily.....	2,137
Number of acres of vegetation removed.....	156
Number of acres of streets cleaned.....	6,731
Number of private properties cleaned.....	1,009
Number of square yards of pools oiled.....	229,095
Number of mosquito breeding places found.....	1,186
Number of water receptacles treated.....	332,093
Number of linear feet of ditches constructed.....	4,170
Number of linear feet of ditches maintained.....	207,010
Notice to abate nuisances served.....	5,776
Number of nuisances abated.....	3,888
Number of buildings inspected.....	56,312
Number of rats killed.....	628
Number of square yards of alleys cleaned.....	1,655,033
Number of square yards of streets sprinkled.....	1,128,000
Number of fly breeding places found.....	707
Sanitation of Cristobal:	
Number of square yards of pools oiled.....	45,450
Number of water receptacles treated.....	51,910
Number of mosquito breeding places found.....	209
Number of mosquitoes killed in barracks.....	9,902
Number of fly breeding places found.....	89
Sanitation of Mount Hope:	
Number of square yards of pools oiled.....	427,175
Number of water receptacles treated.....	358,150
Number of linear feet of ditches maintained.....	205,955
Number of mosquito breeding places found.....	1,280
Number of linear feet of ditches constructed.....	30,463
Sanitation Toro Point:	
Number of square yards of pools oiled.....	415,570
Number of water receptacles treated.....	101,040
Number of mosquito breeding places found.....	592
Number of linear feet of ditches constructed.....	14,127
Number of linear feet of ditches maintained.....	101,000
Number of crab holes worked.....	52,310
Number of doses quinine tonic distributed.....	47,468
Number of adult mosquitoes killed.....	9,059

Sanitation of Margarita Point:

Number of square yards of pools oiled.....	2,125
Number of water receptacles treated.....	8,025
Number of mosquito breeding places found.....	1
Number of linear feet of ditches maintained.....	425

SANITATION—CANAL ZONE.

Work requests on Quartermaster's Department:

Grass cutting.....	800
Screen repairing.....	408
Miscellaneous.....	558
Work requests on engineering department.....	1,001
Work requests on other departments.....	71
Notice served for abatement of nuisances.....	2,671
Arrests for violation of sanitary regulations.....	200
Convictions.....	181
Building permits approved.....	388
Inspections of closets.....	53,782
Inspections of stores.....	9,860
Inspections of restaurants.....	2,641
Inspections of shops.....	2,319
Garbage cans emptied.....	2,156,821
Closets disinfected.....	157,608
Houses disinfected.....	78
Houses fumigated.....	7
Rat traps used daily.....	446
Water and sewer connections made.....	39
Number of adult anopheles destroyed at houses.....	328,342
Number of adult culices destroyed at houses.....	276,664
Number of containers found with <i>Stegomyia</i> larvæ.....	723
Material used:	
Larvacide.....gallons..	126,677
Crude oil.....gallons..	672,889
Rats destroyed.....	9,616

QUARANTINE SERVICE.

PORTS OF PANAMA-ANCON AND COLON-CRISTOBAL.

Number of vessels inspected and passed.....	1,364
Number of vessels detained in quarantine.....	96
Number of vessels fumigated on arrival.....	103
Number of vessels fumigated prior to departure.....	44
Number of crew inspected.....	122,016
Number of passengers inspected.....	71,916
Total number of persons inspected.....	193,932
Number of persons vaccinated at ports of arrival because of compulsory vaccination law.....	12,941
Number of persons vaccinated at ports of departure or en route because of compulsory-vaccination law.....	12,609
Total number of persons vaccinated.....	25,550
Number of persons held in quarantine at the detention stations to complete period of incubation of yellow fever or plague.....	5,322
Number of persons held in quarantine on board vessels to complete period of incubation of yellow fever or plague.....	14,486
Total number of persons held in quarantine.....	19,808
Number of persons landed from foreign ports:	
Cabin.....	23,350
Steerage.....	21,298
	<hr/> 44,648
Number of persons embarked for foreign ports:	
Cabin.....	24,919
Steerage.....	19,911
	<hr/> 44,830
Apparent decrease for the year from foreign ports:	
Cabin (decrease).....	1,569
Steerage (increase).....	1,387
	<hr/> 182

Number of persons arriving from coast towns on small craft.....	28,261
Number of persons embarked for coast towns on small craft.....	25,518
Apparent increase for the year from coast towns.....	2,743
Total number of persons landed.....	72,909
Total number of persons embarked.....	70,348
Excess over number embarked.....	2,561
Less number for Pacific ports.....	3,421
Total apparent decrease for the year.....	860
Number of immigrants recommended for rejection.....	87
Number of certificates issued to outgoing passengers.....	588
Number of persons refused certificates because of trachoma.....	94
Number of bills of health viséed.....	725
Number of pieces of baggage handled and stored.....	11,466

BOCAS DEL TORO.

Number of vessels inspected and passed.....	375
Number of crew inspected and passed.....	17,299
Number of passengers inspected and passed.....	6,737
Number of passengers, in transit, inspected and passed.....	4,027
Number of persons held to complete period of incubation of yellow fever.....	173

PERSONNEL REPORT.

[Average number of employees at work during the year.]

Chief sanitary office.....	40
Property division.....	9
Quarantine service.....	40
Health office, Panama.....	51
Health office, Colon.....	115
Ancon Hospital.....	532
Colon Hospital.....	193
Santo Tomas Hospital.....	5
Taboga Sanitarium.....	24
Palo Seco Leper Asylum.....	15
Zone sanitation.....	243
Dispensaries:	
Ancon.....	4
Balboa.....	3
Bas Obispo.....	6
Corozal.....	3
Cristobal.....	8
Culebra.....	12
Empire.....	11
Gatun.....	15
Gorgona.....	9
Las Cascadas.....	7
Margarita Point.....	1
Mirafleres.....	7
Naos Island.....	2
Paraiso.....	5
Pedro Miguel.....	5
Porto Bello.....	4
Toro Point.....	4
Total.....	1,373

HOSPITAL CASES OF MALARIA AMONG EMPLOYEES.

Months.	Discharged.		Died.		Total cases.	Annual average per 1,000 of deaths.	Annual average per 1,000 of cases.	Number of employees.
	W.	C.	W.	C.				
January.....	251	247	2	....	500	0.46	116	51,852
February.....	251	257	1	1	510	.46	117	52,235
March.....	202	144	....	....	346	.....	81	51,095
April.....	127	109	....	1	237	.24	56	50,612
May.....	166	93	....	....	259	.....	69	49,421
June.....	234	191	3	....	428	.73	105	49,086
July.....	449	585	....	3	1,037	.74	255	48,714
August.....	416	501	1	1	919	.48	219	50,305
September.....	199	239	....	....	438	.....	103	50,948
October.....	151	149	....	1	301	.24	72	50,103
November.....	130	141	1	272	.23	62	52,539
December.....	162	213	1	376	.22	84	53,810
Total.....	2,738	2,869	8	8	5,623	.31	110	50,893







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